Stephen Goldup

List of Publications by Year
in descending order

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83	6,817	53794	58581
papers	citations	45 h-index	82 g-index

105	105	105	4568
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A chiral interlocking auxiliary strategy for the synthesis of mechanically planar chiral rotaxanes. Nature Chemistry, 2022, 14, 179-187.	13.6	35
2	Controlling catalyst activity, chemoselectivity and stereoselectivity with the mechanical bond. Nature Reviews Chemistry, 2022, 6, 182-196.	30.2	57
3	Anionâ€“Ï€ Catalysis Enabled by the Mechanical Bond**. Angewandte Chemie - International Edition, 2022, 61, .	13.8	20
4	Mechanically axially chiral catenanes and noncanonical mechanically axially chiral rotaxanes. Nature Chemistry, 2022, 14, 1038-1044.	13.6	25
5	A Co-conformationally â€œTopologicallyâ€•Chiral Catenane. Journal of the American Chemical Society, 2022, 144, 11927-11932.	13.7	21
6	Damming an electronic energy reservoir: ion-regulated electronic energy shuttling in a [2]rotaxane. Chemical Science, 2021, 12, 9196-9200.	7.4	3
7	Spin-labelled mechanically interlocked molecules as models for the interpretation of biradical EPR spectra. Chemical Science, 2021, 12, 8385-8393.	7.4	4
8	Using the Mechanical Bond to Tune the Performance of a Thermally Activated Delayed Fluorescence Emitter**. Angewandte Chemie - International Edition, 2021, 60, 12066-12073.	13.8	32
9	Using the Mechanical Bond to Tune the Performance of a Thermally Activated Delayed Fluorescence Emitter**. Angewandte Chemie, 2021, 133, 12173-12180.	2.0	4
10	Rotaxane Co^{II} Complexes as Fieldâ€Induced Singleâ€Ion Magnets. Angewandte Chemie - International Edition, 2021, 60, 16051-16058.	13.8	19
11	Rotaxane Co II Complexes as Fieldâ€Induced Singleâ€Ion Magnets. Angewandte Chemie, 2021, 133, 16187-16194	2.0	2
12	Synthesis, photophysical and assembly studies of novel luminescent lanthanide(III) complexes of 1,2,3-triazolyl-pyridine-2,6-dicarboxamide-based ligands. Supramolecular Chemistry, 2021, 33, 160-173.	1.2	6
13	Strategies for the Synthesis of Enantiopure Mechanically Chiral Molecules. CheM, 2020, 6, 1914-1932.	11.7	62
14	Vibrational circular dichroism spectroscopy for probing the expression of chirality in mechanically planar chiral rotaxanes. Chemical Science, 2020, 11, 8469-8475.	7.4	19
15	Rotaxanation as a sequestering template to preclude incidental metal insertion in complex oligochromophores. Chemical Communications, 2020, 56, 7447-7450.	4.1	1
16	AT-CuAAC Synthesis of Mechanically Interlocked Oligonucleotides. Journal of the American Chemical Society, 2020, 142, 5985-5990.	13.7	31
17	Synthesis of a Mechanically Planar Chiral Rotaxane Ligand for Enantioselective Catalysis. CheM, 2020, 6, 994-1006.	11.7	114
18	Rotaxane PtII-complexes: mechanical bonding for chemically robust luminophores and stimuli responsive behaviour. Chemical Science, 2020, 11, 1839-1847.	7.4	22

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19	Simplicity in the Design, Operation, and Applications of Mechanically Interlocked Molecular Machines. ACS Central Science, 2020, 6, 117-128.	11.3	122
20	Chirality makes a move. Nature Chemistry, 2019, 11, 765-767.	13.6	9
21	Chemical Consequences of the Mechanical Bond: A Tandem Active Templateâ€Rearrangement Reaction. Angewandte Chemie, 2019, 131, 3915-3919.	2.0	12
22	An Auxiliary Approach for the Stereoselective Synthesis of Topologically Chiral Catenanes. CheM, 2019, 5, 1512-1520.	11.7	57
23	Chemical Consequences of the Mechanical Bond: A Tandem Active Templateâ€Rearrangement Reaction. Angewandte Chemie - International Edition, 2019, 58, 3875-3879.	13.8	32
24	Rotaxane-Based Transition Metal Complexes: Effect of the Mechanical Bond on Structure and Electronic Properties. Journal of the American Chemical Society, 2019, 141, 879-889.	13.7	56
25	Chelating Rotaxane Ligands as Fluorescent Sensors for Metal Ions. Angewandte Chemie, 2018, 130, 5408-5412.	2.0	18
26	A [3]Rotaxane Host Selects Between Stereoisomers. Angewandte Chemie - International Edition, 2018, 57, 4462-4464.	13.8	10
27	A Fluorescent Ditopic Rotaxane Ionâ€Pair Host. Angewandte Chemie, 2018, 130, 5413-5417.	2.0	26
28	A Fluorescent Ditopic Rotaxane Ionâ€Pair Host. Angewandte Chemie - International Edition, 2018, 57, 5315-5319.	13.8	62
29	Ein [3]Rotaxanâ€Wirt selektiert zwischen Stereoisomeren. Angewandte Chemie, 2018, 130, 4550-4552.	2.0	0
30	Efficient Multicomponent Active Template Synthesis of Catenanes. Journal of the American Chemical Society, 2018, 140, 4787-4791.	13.7	52
31	Chelating Rotaxane Ligands as Fluorescent Sensors for Metal Ions. Angewandte Chemie - International Edition, 2018, 57, 5310-5314.	13.8	79
32	Synthesis and Characterisation of a Paramagnetic [2]Rotaxane Based on a Crown Etherâ€Like Wheel Incorporating a Nitroxide Motif. Chemistry - A European Journal, 2018, 24, 1198-1203.	3.3	12
33	Stereoselective Synthesis of Mechanically Planar Chiral Rotaxanes. Angewandte Chemie, 2018, 130, 15022-15026.	2.0	10
34	Stereoselective Synthesis of Mechanically Planar Chiral Rotaxanes. Angewandte Chemie - International Edition, 2018, 57, 14806-14810.	13.8	68
35	Chirality in rotaxanes and catenanes. Chemical Society Reviews, 2018, 47, 5266-5311.	38.1	222
36	Molecular machines swap rings. Nature, 2018, 557, 39-40.	27.8	5

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37	Metal ions in the synthesis of interlocked molecules and materials. Chemical Society Reviews, 2017, 46, 2577-2591.	38.1	182
38	Porphyrinoid rotaxanes: building a mechanical picket fence. Chemical Science, 2017, 8, 6679-6685.	7.4	26
39	The active template approach to interlocked molecules. Nature Reviews Chemistry, 2017, 1, .	30.2	203
40	Properties and emerging applications of mechanically interlocked ligands. Chemical Communications, 2017, 53, 298-312.	4.1	155
41	Stepwise, Protecting Group Free Synthesis of [4]Rotaxanes. Molecules, 2017, 22, 89.	3.8	13
42	Profile: Early excellence in Physical Organic Chemistry. Journal of Physical Organic Chemistry, 2016, 29, 324-325.	1.9	0
43	Scalable anti-Markovnikov hydrobromination of aliphatic and aromatic olefins. Organic and Biomolecular Chemistry, 2016, 14, 5622-5626.	2.8	21
44	A chiral catalyst with a ring to it. Nature Chemistry, 2016, 8, 404-406.	13.6	11
45	A Kinetic Selfâ€Sorting Approach to Heterocircuit [3]Rotaxanes. Angewandte Chemie, 2016, 128, 12676-12681.	2.0	15
46	A Kinetic Selfâ€Sorting Approach to Heterocircuit [3]Rotaxanes. Angewandte Chemie - International Edition, 2016, 55, 12488-12493.	13.8	51
47	Iterative Synthesis of Oligo[n]rotaxanes in Excellent Yield. Journal of the American Chemical Society, 2016, 138, 16329-16336.	13.7	92
48	Engaging Copper(III) Corrole as an Electron Acceptor: Photoinduced Charge Separation in Zinc Porphyrinâ€“Copper Corrole Donorâ€“Acceptor Conjugates. Chemistry - A European Journal, 2016, 22, 1301-1312.	3.3	25
49	An autonomous chemically fuelled small-molecule motor. Nature, 2016, 534, 235-240.	27.8	370
50	High yielding synthesis of 2,2â€²-bipyridine macrocycles, versatile intermediates in the synthesis of rotaxanes. Chemical Science, 2016, 7, 3154-3161.	7.4	74
51	A Stimuliâ€Responsive Rotaxaneâ€“Gold Catalyst: Regulation of Activity and Diastereoselectivity. Angewandte Chemie - International Edition, 2015, 54, 13545-13549.	13.8	140
52	Selective and general exhaustive cross-coupling of di-chloroarenes with a deficit of nucleophiles mediated by a Pdâ€“NHC complex. Chemical Communications, 2015, 51, 3832-3834.	4.1	22
53	Two steps uphill. Nature Nanotechnology, 2015, 10, 488-489.	31.5	10
54	Photodegradation of Rhodamine B over Ag modified ferroelectric BaTiO₃ under simulated solar light: pathways and mechanism. RSC Advances, 2015, 5, 30372-30379.	3.6	67

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55	Competitive formation of homocircuit [3]rotaxanes in synthetically useful yields in the bipyridine-mediated active template CuAAC reaction. Chemical Science, 2015, 6, 2398-2404.	7.4	52
56	Biologically targeted probes for Zn²⁺: a diversity oriented modular â€œclick-S_NAr-clickâ€•approach. Chemical Science, 2014, 5, 3528-3535.	7.4	49
57	Chemical consequences of mechanical bonding in catenanes and rotaxanes: isomerism, modification, catalysis and molecular machines for synthesis. Chemical Communications, 2014, 50, 5128-5142.	4.1	237
58	An Efficient Approach to Mechanically Planar Chiral Rotaxanes. Journal of the American Chemical Society, 2014, 136, 4817-4820.	13.7	142
59	Synthesis of a Rotaxane Cu^I Triazolide under Aqueous Conditions. Journal of the American Chemical Society, 2013, 135, 13318-13321.	13.7	97
60	Sequence-Specific Peptide Synthesis by an Artificial Small-Molecule Machine. Science, 2013, 339, 189-193.	12.6	659
61	Crystallization of amorphous lactose at high humidity studied by terahertz time domain spectroscopy. Chemical Physics Letters, 2013, 558, 104-108.	2.6	41
62	Investigation of n-octadecane's crystallization by quasi-optical transmissometer. , 2012, , .		0
63	A Three-Compartment Chemically-Driven Molecular Information Ratchet. Journal of the American Chemical Society, 2012, 134, 8321-8323.	13.7	115
64	Terahertz spectroscopy: a powerful new tool for the chemical sciences?. Chemical Society Reviews, 2012, 41, 2072-2082.	38.1	192
65	Modular â€˜clickâ€™ sensors for zinc and their application in vivo. Chemical Communications, 2011, 47, 6036.	4.1	82
66	Two Flavors of PEPPSI-IPr: Activation and Diffusion Control in a Single NHC-Ligated Pd Catalyst?. Organic Letters, 2011, 13, 146-149.	4.6	60
67	Macrocycle Size Matters: â€œSmallâ€•Functionalized Rotaxanes in Excellent Yield Using the CuAAC Active Template Approach. Angewandte Chemie - International Edition, 2011, 50, 4151-4155.	13.8	130
68	Activeâ€Metal Template Synthesis of a Molecular Trefoil Knot. Angewandte Chemie - International Edition, 2011, 50, 12280-12284.	13.8	137
69	Back Cover: Active-Metal Template Synthesis of a Molecular Trefoil Knot (Angew. Chem. Int. Ed. 51/2011). Angewandte Chemie - International Edition, 2011, 50, 12366-12366.	13.8	0
70	An Unusual Nickelâ^'Copper-Mediated Alkyne Homocoupling Reaction for the Active-Template Synthesis of [2]Rotaxanes. Journal of the American Chemical Society, 2010, 132, 6243-6248.	13.7	121
71	Two Axles Threaded Using a Single Template Site: Active Metal Template Macrobicyclic [3]Rotaxanes. Journal of the American Chemical Society, 2010, 132, 315-320.	13.7	80
72	Ligand-assisted nickel-catalysed sp3â€“sp3 homocoupling of unactivated alkyl bromides and its application to the active template synthesis of rotaxanes. Chemical Science, 2010, 1, 383.	7.4	104

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73	Unusual Mechanistic Course of Some NHC-Mediated Transesterifications. Organic Letters, 2009, 11, 1643-1646.	4.6	28
74	Active metal template synthesis of rotaxanes, catenanes and molecular shuttles. Chemical Society Reviews, 2009, 38, 1530.	38.1	573
75	Active Metal Template Synthesis of [2]Catenanes. Journal of the American Chemical Society, 2009, 131, 15924-15929.	13.7	127
76	Active Template Synthesis of Rotaxanes and Molecular Shuttles with Switchable Dynamics by Fourâ€Component Pd^{II}â€Promoted Michael Additions. Angewandte Chemie - International Edition, 2008, 47, 3381-3384.	13.8	64
77	Cadiotâ€“Chodkiewicz Active Template Synthesis of Rotaxanes and Switchable Molecular Shuttles with Weak Intercomponent Interactions. Angewandte Chemie - International Edition, 2008, 47, 4392-4396.	13.8	101
78	Gold(I)â€Template Catenane and Rotaxane Synthesis. Angewandte Chemie - International Edition, 2008, 47, 6999-7003.	13.8	83
79	A Chemically-Driven Molecular Information Ratchet. Journal of the American Chemical Society, 2008, 130, 1836-1838.	13.7	187
80	Catalytic â€œActive-Metalâ€•Template Synthesis of [2]Rotaxanes, [3]Rotaxanes, and Molecular Shuttles, and Some Observations on the Mechanism of the Cu(I)-Catalyzed Azideâˆ’Alkyne 1,3-Cycloaddition. Journal of the American Chemical Society, 2007, 129, 11950-11963.	13.7	248
81	A Catalytic Palladium Active-Metal Template Pathway to [2]Rotaxanes. Angewandte Chemie - International Edition, 2007, 46, 5709-5713.	13.8	100
82	A Simple, Short, and Flexible Synthesis of Viridiofungin Derivatives. Journal of Organic Chemistry, 2006, 71, 6185-6191.	3.2	58
83	Anionâ€“Ï€ Catalysis Enabled by the Mechanical Bond**. Angewandte Chemie, 0, , .	2.0	0